AMENDMENTS TO CLAIMS

 (currently amended) A method of determining a wireless system capacity comprising the steps of:

determining a reverse noise floor:

obtaining a plurality of forward code domain measurements and corresponding reverse noise measurements, wherein each of the plurality of forward code domain measurements include a data set having a timestamp, a plurality of code IDs, and power levels for each code ID: and.

determining a maximum number of users such that the probability of exceeding a predetermined reverse noise rise is below a threshold.

- (original) The method of claim 1 wherein the forward code domain measurements comprise the number of active forward links.
- (original) The method of claim 1 wherein the step of determining a reverse noise floor is performed by obtaining reverse noise measurements during a period of inactivity.
- 4. (original) The method of claim 1 wherein the step of determining a maximum number of users includes determining revere noise rise measurements by comparing the reverse noise measurements to the reverse noise floor.
- (original) The method of claim 1 wherein the forward code domain measurements and reverse noise measurements are obtained substantially simultaneously.
- 6. (original) The method of claim 1 wherein the step of determining a maximum

number of users includes, using measurements corresponding to those at or below a specific

number of active sessions, forming a ratio of the number of measurements having an RNR below

3 decibels to the number of measurements corresponding to those at or below a specific number

of active sessions, and comparing the ratio to a confidence level.

7. (original) The method of claim 1 wherein the plurality of forward code domain

measurements are obtained from a base station transceiver.

8. (canceled)

9. (currently amended) A method of determining a wireless system capacity comprising

the steps of:

modifying at least one system parameter;

determining a reverse noise floor:

obtaining a plurality of forward code domain measurements and corresponding reverse

noise measurements; and,

determining a maximum number of users such that the probability of exceeding a

predetermined reverse noise rise (RNR) is below a threshold, wherein the probability is

determined from a ratio of the number of measurements having an RNR below 3 decibels to the

number of measurements corresponding to those at or below a specific number of active sessions.

10. (original) The method of claim 9 wherein the forward code domain measurements

comprise the number of active forward links.

11. (original) The method of claim 9 wherein the step of determining a reverse noise

floor is performed by obtaining reverse noise measurements during a period of inactivity.

McDonnell, Boehnen Huubert & Berghoee LLP 300 South Wacker Drive Chicago, Illinois 60606 ATTORNEY DOCKET No.: 03-397 S/N: 10/789,843 FILING DATE: FEBRUARY 27, 2004 12. (original) The method of claim 9 wherein the step of determining a maximum

number of users includes determining reverse noise rise measurements by comparing the reverse

noise measurements to the reverse noise floor.

13. (original) The method of claim 9 wherein the forward code domain measurements

and reverse noise measurements are obtained substantially simultaneously.

14. (currently amended) The method of claim 9 wherein the step of determining a

maximum number of users includes, using measurements corresponding to those at or below a

specific number of active sessions, forming a ratio of the number of measurements having an

RNR below 3 decibels to the number of measurements corresponding to those at or below a

specific number of active sessions, and comparing the ratio to a confidence level.

15. (original) The method of claim 9 wherein the plurality of forward code domain

measurements are obtained from a base station transceiver.

16. (original) The method of claim 9 wherein the forward code domain measurements

include a plurality of data sets, each set having a timestamp, a plurality of code IDS, and power

levels for each code ID.

17. (original) The method of claim 9 wherein the said at least one system parameter is

a power control parameter.

MCDONNELL BOENNEN HULBERT & BERGHOEE LLP 300 SOUTH WARKER DRIVE CHICAGO, LLINOIS 60606 TR EPHONE (312) 913-9001 ATTORNEY DOCKET No.: 03-397 S/N: 10/789,843 FILING DATE: FEBRUARY 27, 2004

18.	(original)	The method of claim 9 wherein the said at least one system parameter is
a mob	oile access prob	e parameter.